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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,543	09/09/2003	Jung Chieh Lai		3067

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EXAMINER

GILMAN, ALEXANDER

ART UNIT PAPER NUMBER

2833

DATE MAILED: 03/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/659,543	Applicant(s) LAI ET AL.	
	Examiner Alexander D Gilman	Art Unit 2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                                                                                 |                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                                                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                                            | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>09/09/2003</u> . | 6) <input type="checkbox"/> Other: _____                                                |

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**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Ishida et al.

With regard to claim 1 Ishida et al (US 6,176,714) disclose an electronic card connector adapted for being mounted onto a printed circuit board comprising (col. 1, lines 6-11):

a terminal module comprising a dielectric housing and a plurality of terminals

retained in the dielectric housing, each terminal comprising a contact portion

adapted for electrically connecting with an electronic card and a mounting

portion adapted for electrically connecting with the printed circuit board;

a card ejection mechanism (Fig. 8) being located at a side of the terminal module and

comprising a push rod (55) and a button (57), the push rod comprising one of a receiving

space (55b) and a locking portion, the button comprising another of the receiving space

and the locking portion (57a), the receiving space and the locking portion locking with

each other..

2. Claims 1, 2, 7-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Yu

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The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

With regard to claims 1, 2 Yu et al (US 6,406,311) disclose (Fig. 1) an electronic card connector adapted for being mounted onto a printed circuit board comprising :

a terminal module (50) comprising a dielectric housing and a plurality of terminals

retained in the dielectric housing, each terminal comprising a contact portion

adapted for electrically connecting with an electronic card and a mounting

portion adapted for electrically connecting with the printed circuit board;

a card ejection mechanism (Fig. 1) being located at a side of the terminal module and

comprising a push rod (122) and a button (121), the push rod comprising a locking portion (1222), the

button comprising the receiving space (1214)

and the locking portion, the receiving space and the locking portion locking with each other.

With regard to claim 7 Yu et al disclose a shield (52) attached to the terminal module.

With regard to claim 8 Yu et al disclose that the card ejection mechanism comprises an operate portion disposed at a side of the shield,

and wherein the operate portion comprises the push (122) and the button (121).

With regard to claim 9 Yu et al disclose (Fig. 1) that the card ejection mechanism (2) comprises a guide attached to the push rod, a swing arm pivotably disposed in the shield and a slide plate coupled with the swing arm.

With regard to claim 10, Yu et al disclose the structure which operates according to steps claimed.

***Claim Rejections - 35 USC § 103***

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hara in view of Ishida et al

With regard to claim 1, Hara (US 6,071,149) disclose (Fig. 1) an electronic card connector adapted for being mounted onto a printed circuit board comprising :

a terminal module (2) comprising a dielectric housing and a plurality of terminals retained in the dielectric housing, each terminal comprising a contact portion adapted for electrically connecting with an electronic card and a mounting portion adapted for electrically connecting with the printed circuit board;  
a card ejection mechanism (3) being located at a side of the terminal module and comprising a push rod (312) and a button (311),

Hara does not disclose that the push rod comprising a locking portion , the button comprising the receiving space .

and the locking portion, the receiving space and the locking portion locking with each other.

Ishida et al disclose that the push rod comprising the receiving space (55a), the button comprising a locking portion (57a) and the locking portion, the receiving space and the locking portion locking with each other.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the Hara with the locking mechanism, as taught by Ishida et al, to dependably fix the card in the connector

With regard to claim 7 Hara when modified by Ishida et al disclose (Hara) a shield (1) attached to the terminal module.

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With regard to claim 8 Hara when modified by Ishida et al disclose (Hara) that the card ejection mechanism comprises an operate portion (3) disposed at a side of the shield, and wherein the operate portion comprises the push (122) and the button (121).

With regard to claim 9 Hara when modified by Ishida et al disclose (Hara) that the card ejection mechanism (3) comprises a guide attached to the push rod (312), a swing arm (32) pivotably disposed in the shield and a slide plate (33) coupled with the swing arm.

With regard to claim 10, Hara when modified by Ishida et al disclose the structure which operates according to steps claimed.

2. Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishida et al in view of Pon et al.

With regard to claims 3-5, Ishida et al do not specifically disclose that the locking portion comprises a resilient portion, defining a slit, and a hook, defining lead-in, formed on the resilient portion, and wherein the receiving space comprises a cavity receiving the resilient portion and a recess communicating with the cavity and receiving the hook.

Pon et al (US 6,305,964) disclose that the locking portion comprises a resilient portion, defining a slit (104), and a hook (105), defining lead-in, formed on the resilient portion, and wherein the receiving space comprises a cavity (130) receiving the resilient portion and a recess communicating with the cavity and receiving the hook.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the Ishida et al with the resilient mechanism, as taught by Pon et al, to dependably lock and easy unlock the button

With regard to claim 6, Ishida when modified by Pon et al disclose (Ishida et al) the locking portion is formed with a projection (Fig. 8a), and wherein the cavity comprises a cutout (a cutout at the edge of 55) receiving the projection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

03/03/2004



**ALEXANDER GILMAN  
PRIMARY EXAMINER**